

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895787

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-LOW-5000K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ACL-UNV-CC93-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

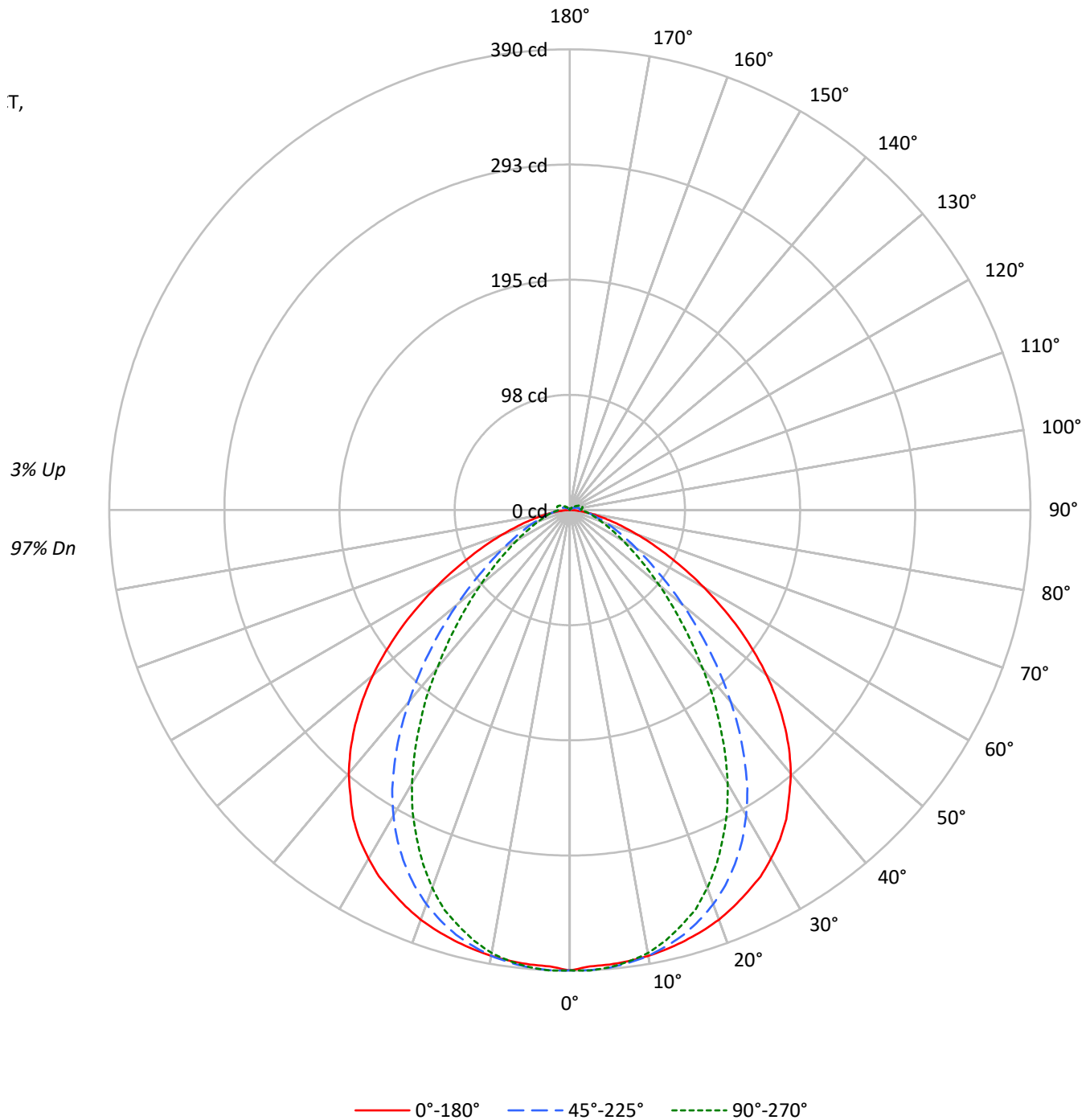
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 812.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 6.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7980	7980	7980
5°	7909	7822	7774
10°	7911	7631	7505
15°	7911	7394	7124
20°	7922	7089	6658
25°	7899	6689	6045
30°	7864	6165	5351
35°	7758	5481	4534
40°	7516	4677	3695
45°	7139	3848	2928
50°	6604	3059	2286
55°	5880	2377	1770
60°	5008	1857	1385
65°	4093	1476	1101
70°	3247	1193	904
75°	2509	971	791
80°	1780	821	717
85°	1015	715	646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	4.5
10°-20°	104.7	12.9
20°-30°	152.2	18.7
30°-40°	164.5	20.3
40°-50°	138.8	17.1
50°-60°	95.1	11.7
60°-70°	55.5	6.8
70°-80°	28.3	3.5
80°-90°	12.2	1.5
90°-100°	7.4	0.9
100°-110°	6.6	0.8
110°-120°	4.5	0.6
120°-130°	2.5	0.3
130°-140°	1.4	0.2
140°-150°	0.7	0.1
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	293.8	36.2
0°-40°	458.4	56.5
0°-60°	692.3	85.3
0°-90°	788.3	97.1
90°-120°	18.5	2.3
90°-150°	23.2	2.9
90°-180°	24.0	3.0
0°-180°	812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	386	389	389	390	389	37
15°	377	377	372	368	364	107
25°	356	350	331	314	307	164
35°	320	299	258	230	221	199
45°	257	217	166	141	133	197
55°	175	132	90	76	72	156
65°	92	68	47	40	38	93
75°	37	30	24	22	22	40
85°	6	9	12	13	13	8
90°	0	4	9	10	10	0
95°	0	4	8	10	10	0
105°	0	2	7	10	11	0
115°	0	1	5	8	9	0
125°	0	1	3	5	5	0
135°	0	1	2	3	3	0
145°	0	0	1	2	2	0
155°	0	0	1	1	1	0
165°	0	0	0	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	389.7	389.7	389.7	389.7	389.7
2.5°	386.7	389.2	390.0	391.0	390.2
5°	386.2	388.6	388.9	389.7	388.6
7.5°	385.1	387.0	386.5	386.5	385.4
10°	383.3	384.3	383.3	381.9	380.9
12.5°	380.6	381.4	378.2	376.3	373.6
15°	377.4	377.1	372.3	367.7	364.3
17.5°	373.6	371.7	364.3	357.3	354.3
20°	369.1	365.6	355.1	345.0	340.4
22.5°	363.2	358.4	343.9	330.8	324.6
25°	356.5	349.5	330.8	314.4	306.7
27.5°	349.8	339.3	316.0	295.7	288.2
30°	340.7	327.6	298.6	275.6	267.3
32.5°	331.0	314.4	279.9	253.1	244.8
35°	319.5	298.9	257.9	230.3	221.2
37.5°	305.1	280.7	235.7	206.8	199.0
40°	291.1	260.9	211.9	183.2	174.6
42.5°	274.8	239.4	188.8	161.0	153.2
45°	256.9	217.2	166.3	140.6	132.8
47.5°	237.8	196.1	144.9	121.1	114.9
50°	217.7	174.4	124.8	104.2	98.6
52.5°	196.3	152.7	106.3	89.2	84.1
55°	174.6	132.3	90.5	75.8	71.8
57.5°	151.9	112.8	77.1	64.5	60.8
60°	131.2	96.4	65.1	55.2	52.2
62.5°	110.9	81.4	55.4	46.9	44.5
65°	92.1	67.8	46.9	39.9	38.0
67.5°	75.8	56.8	40.2	34.3	32.9
70°	60.5	46.3	33.7	29.5	28.1
72.5°	47.7	37.5	28.4	25.4	24.6
75°	36.7	30.0	23.8	22.2	21.7
77.5°	26.8	23.0	20.1	19.3	19.0
80°	18.7	17.4	16.9	16.9	16.9
82.5°	11.8	12.9	14.2	14.7	14.7
85°	6.4	8.8	11.8	12.6	12.6
87.5°	2.7	6.2	9.9	10.7	10.4
90°	0.3	4.0	8.6	9.6	9.6
92.5°	0.0	4.0	8.6	9.6	9.6
95°	0.0	3.7	8.3	9.9	10.2
97.5°	0.0	3.5	8.3	10.2	10.4
100°	0.3	3.2	8.3	10.4	10.7
102.5°	0.0	2.7	7.8	10.4	11.0
105°	0.0	2.1	7.2	10.4	11.0
107.5°	0.0	1.6	6.7	9.9	10.7
110°	0.0	1.6	6.2	9.4	10.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.3	5.4	8.6	9.6
115°	0.0	1.3	4.6	7.8	8.8
117.5°	0.0	1.1	4.0	7.0	7.8
120°	0.0	1.1	3.5	6.2	7.0
122.5°	0.0	1.1	3.2	5.4	6.2
125°	0.0	0.8	2.7	4.6	5.4
127.5°	0.3	0.8	2.4	4.0	4.8
130°	0.3	0.8	2.1	3.5	4.3
132.5°	0.3	0.8	1.9	3.2	3.7
135°	0.3	0.8	1.9	2.7	3.2
137.5°	0.3	0.8	1.6	2.4	2.7
140°	0.3	0.8	1.3	2.1	2.4
142.5°	0.3	0.5	1.3	1.9	2.1
145°	0.3	0.5	1.3	1.6	1.9
147.5°	0.3	0.5	1.1	1.6	1.6
150°	0.3	0.5	1.1	1.3	1.6
152.5°	0.3	0.5	0.8	1.3	1.3
155°	0.3	0.5	0.8	1.1	1.3
157.5°	0.3	0.5	0.8	1.1	1.1
160°	0.3	0.5	0.5	0.8	1.1
162.5°	0.3	0.3	0.5	0.8	0.8
165°	0.3	0.3	0.5	0.8	0.8
167.5°	0.3	0.3	0.5	0.5	0.8
170°	0.3	0.3	0.5	0.5	0.5
172.5°	0.3	0.3	0.5	0.5	0.3
175°	0.3	0.3	0.5	0.5	0.3
177.5°	0.3	0.3	0.5	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.75	17.15	16.16	17.53	17.92	12.07	13.47	12.48	13.85	14.24
	3H	16.82	18.07	17.24	18.46	18.89	13.25	14.50	13.68	14.89	15.33
	4H	17.11	18.28	17.56	18.69	19.14	13.78	14.95	14.22	15.36	15.81
	6H	17.24	18.32	17.71	18.75	19.22	14.31	15.40	14.78	15.82	16.29
	8H	17.25	18.28	17.73	18.73	19.21	14.59	15.62	15.07	16.07	16.54
	12H	17.24	18.23	17.72	18.67	19.17	14.88	15.87	15.36	16.31	16.81
4H	2H	15.78	16.95	16.23	17.37	17.82	12.53	13.70	12.98	14.11	14.56
	3H	17.00	17.97	17.47	18.43	18.91	13.89	14.86	14.35	15.32	15.79
	4H	17.38	18.26	17.87	18.73	19.24	14.52	15.39	15.00	15.87	16.38
	6H	17.60	18.36	18.11	18.86	19.39	15.19	15.95	15.70	16.45	16.98
	8H	17.64	18.34	18.15	18.84	19.38	15.54	16.25	16.05	16.75	17.28
	12H	17.64	18.27	18.17	18.81	19.35	15.92	16.55	16.45	17.08	17.62
8H	4H	17.40	18.11	17.92	18.61	19.15	14.74	15.45	15.25	15.95	16.48
	6H	17.68	18.26	18.22	18.81	19.35	15.53	16.11	16.07	16.66	17.20
	8H	17.74	18.27	18.31	18.83	19.39	15.96	16.49	16.52	17.05	17.61
	12H	17.78	18.25	18.34	18.79	19.42	16.47	16.93	17.02	17.48	18.11
12H	4H	17.39	18.02	17.92	18.55	19.09	14.75	15.38	15.28	15.91	16.45
	6H	17.67	18.20	18.23	18.76	19.32	15.56	16.09	16.12	16.65	17.20
	8H	17.78	18.24	18.33	18.79	19.42	16.05	16.52	16.61	17.07	17.70